

## Human Plasma TMP & Thiamine by Gemini-NX 3u C18 100x3mm with Impact Plate\_Spiked Plasma

**Column:** Gemini® 3 µm NX-C18 110 Å, LC Column 100 x 3 mm, Ea

**Dimensions:** 100 x 3 mm ID

**Order No:** 00D-4453-Y0

**Elution Type:** Gradient

**Eluent A:** 25nM Na<sub>2</sub>HPO<sub>4</sub>, 10% methanol

**Eluent B:** 25mM Na<sub>2</sub>HPO<sub>4</sub>, 70% methanol

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
|                   | 1        | 0          | 3     | 97    |
|                   | 2        | 0.25       | 25    | 75    |
|                   | 3        | 0.75       | 25    | 75    |
|                   | 4        | 3          | 35    | 65    |
|                   | 5        | 4          | 100   | 0     |
|                   | 6        | 5          | 100   | 0     |
|                   | 7        | 5.1        | 3     | 97    |
|                   | 8        | 8          | 3     | 97    |

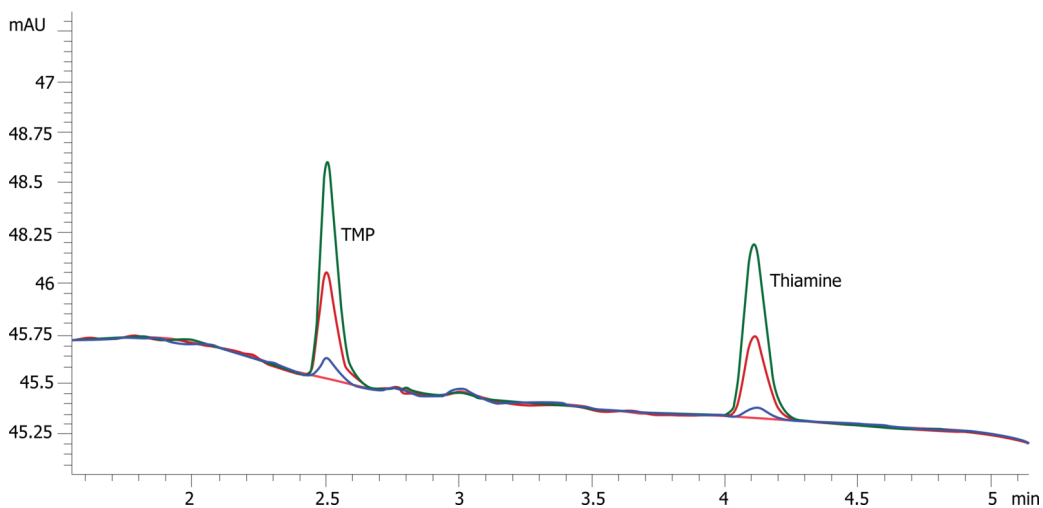
**Flow Rate:** 0.75 mL/min

**Col. Temp.:** ambient

**Detection:** Fluorescence (FLUOR) @ Ex 375 nm (ambient)

**Detector Info:** Shimadzu ELSD

21877



### ANALYTES:

**1** TMP

Retention Time: 2.517 min

**2** Thiamine

Retention Time: 4.128 min



Products used in this application:



# Sample Preparation Details

for HPLC Application ID No.: 21877

## Human Plasma TMP & Thiamine by Gemini-NX 3u C18 100x3mm with Impact Plate\_Spiked Plasma

### PRODUCT DESCRIPTION:

Impact™ Protein Precipitation, 2mL Square Well Filter Plate, 2/Pk

Order No.: CE0-7565

### SOLID PHASE EXTRACTION (SPE) PROCEDURE:

**Note:** The solvent volumes shown below are for a Proprietary bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

#### Condition:

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#### Load:

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#### Wash:

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#### Dry:

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#### Elute:

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#### Final Prep and Analysis:

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Inject: 20 µL on HPLC Fluorescence (FLUOR) @ Ex 375 nm (ambient)

| <b>ANALYTES:</b> | <b>Spiked Conc.<br/>(ng/mL)</b> | <b>Log P</b> | <b>pKa</b> | <b>% Rec</b> | <b>%RSC<br/>(n=0)</b> |
|------------------|---------------------------------|--------------|------------|--------------|-----------------------|
| 1 TMP            | 200                             |              |            |              |                       |
| 2 Thiamine       | 200                             |              |            |              |                       |

**Note:** This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at support@phenomenex.com



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